

WHAT IS CLAIMED IS:

1. An image projector for forming an image using a lamp for emitting image projection light and an image forming element, and projecting the image, comprising:

a lamp box containing the lamp;

a case for forming a housing for the projector, and having an opening for inserting the lamp box into the housing;

a lamp housing provided inside the case and used for fixing the lamp box; and

a lamp door removably attached to the case and used for opening and closing the opening; wherein

the lamp box has a screw-inserting component through which a fixing screw for fixing the lamp box to the lamp housing is threaded;

the lamp housing has a screw cramp for fixing the fixing screw threaded through the screw-inserting component; and

the lamp door has a screw-turning component capable of engaging with a groove on the head of the fixing screw when removed from the case, and threadable tightening/loosening can be performed by rotating the lamp door with the screw-turning component engaged with the groove in the fixing screw.

2. The image projector according to claim 1, wherein

the screw-turning component comprises a rib standing on the inside surface of the lamp door and extending in a straight line, and wherein the leading end of the rib has a shape that can engage with the head of the screw.

3. The image projector according to claim 2, wherein the rib has reinforcing components at the base end thereof for enhancing the resistance of the rib to twisting.
4. The image projector according to claim 1, further comprising:
a detection switch provided inside the case and used for detecting that the lamp door is attached; and
a pressing component formed integrally with the lamp door on the inner surface of the lamp door and used for pressing on the operating tab of the detection switch.
5. The image projector according to claim 4, wherein the pressing component also serves as the screw-turning component.
6. The image projector according to claim 4, wherein the screw-inserting component of the lamp box and the screw cramp of the lamp box are disposed closer to the lamp door than to the position of the detection switch and are placed over each other when the lamp box is inserted into the lamp housing.